

## Documentation No. 1

# Confirmation of Long-term stability of Dye-laser in LF502 NanoScan FLT

### Aim of the experiment:

- confirmation of the suitability of the Nitrogen/Dye-laser combination for long-term fluorescence measurements in HTS campaigns



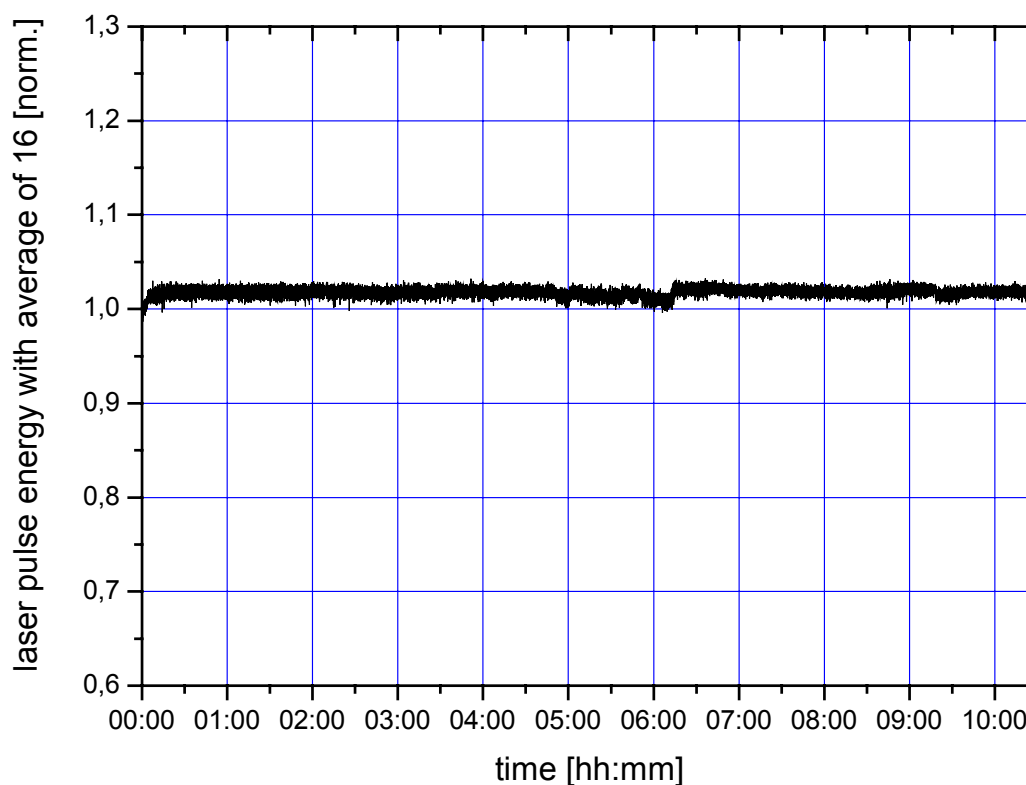
## Measurement:

Measurement of laser pulse energy that is directed into the microplate

laser module: 488 nm  
 laser frequency: 30 Hz  
 total number of laser pulses: 500.000

500.000 single laser pulses correspond to 31.250 wells in total when an averaging of 16 pulses per microplate well is assumed. This is equivalent to approximately 81 384 well plates.

## Results:



cv value: **0,44%** (over the entire 10-hour-duration of the experiment)

## Conclusion:

- **The Nitrogen/Dye-laser combination is stable over long periods and suitable for HTS measurements.**